Blast SEQ ID NO:1 versus human genomic

MEGABLAST 1.2.3-Paracel [2001-11-20]

Reference:
Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000),
"A greedy algorithm for aligning DNA sequences",
J Comput Biol 2000; 7(1-2):203-14.
Database: Homo_sapiens.latestgp.masked.fa
           44,521 sequences; 200,768,834,160 total letters

Query= LEX161seqid1
        (2115 letters)

	Score (bits)	E Value
Sequences producing significant alignments:		
AC016643.6.1.179969	734	0.0
AC008958.7.1.109526	520	e-144

>AC016643.6.1.179969
        Length = 179969

 Score = 734 bits (370), Expect = 0.0
 Identities = 370/370 (100%)
 Strand = Plus / Plus

```
Query: 957    agatgatttaagccagaagttaaaacccttgggtgaagcagaacgagagtttattttgaa
1016
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 60550  agatgatttaagccagaagttaaaacccttgggtgaagcagaacgagagtttattttgaa
60609


Query: 1017   tttgaagaaaaaggaatgcaaagacagggggtttttgaatatgatgggaaaatcaatgcctg
1076
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 60610  tttgaagaaaaaggaatgcaaagacagggggtttttgaatatgatgggaaaatcaatgcctg
60669


Query: 1077   ggatctatattactacatgactcagacagaggaactcaagtattccatagaccaagagtt
1136
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 60670  ggatctatattactacatgactcagacagaggaactcaagtattccatagaccaagagtt
60729


Query: 1137   cctcaaggaatacttcccaattgaggtggtcactgaaggcttgctgaacacctaccagga
1196
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 60730  cctcaaggaatacttcccaattgaggtggtcactgaaggcttgctgaacacctaccagga
60789
```

```
Query: 1197    gttgttgggactttcatttgaacaaatgacagatgctcatgtttggaacaagagtgttac
1256
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 60790   gttgttgggactttcatttgaacaaatgacagatgctcatgtttggaacaagagtgttac
60849


Query: 1257    actttatactgtgaaggataaagctacaggagaagtattgggacagttctatttggacct
1316
               |||||||||||||-|||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 60850   actttatactgtgaaggataaagctacaggagaagtattgggacagttctatttggacct
60909


Query: 1317    ctatccaagg 1326
               ||||||||||
Sbjct: 60910   ctatccaagg 60919



 Score =  520 bits (262), Expect = e-144
 Identities = 262/262 (100%)
 Strand = Plus / Plus


Query: 40      agagttggtggttccaggatttttactcagaatgacgttaggaagagaagtgatgtctcct
99
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 30994   agagttggtggttccaggatttttactcagaatgacgttaggaagagaagtgatgtctcct
31053


Query: 100     cttcaggcaatgtcttcctatactgtggctggcagaaatgtttttaagatgggatctttca
159
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 31054   cttcaggcaatgtcttcctatactgtggctggcagaaatgtttttaagatgggatctttca
31113


Query: 160     ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
219
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 31114   ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
31173


Query: 220     gctgttggaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
279
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 31174   gctgttggaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
31233


Query: 280     gatgtagaagtaaagtatatag 301
               ||||||||||||||||||||||
Sbjct: 31234   gatgtagaagtaaagtatatag 31255



 Score =  405 bits (204), Expect = e-110
```

Identities = 204/204 (100%)
Strand = Plus / Plus

Query: 1324 agggaaggaaaatacaatcatgcggcctgcttcggtctccagcctggctgccttctgcct
1383
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 64886 agggaaggaaaatacaatcatgcggcctgcttcggtctccagcctggctgccttctgcct
64945

Query: 1384 gatggaagccggatgatggcagtggctgccctcgtggtgaacttctcacagccagtggca
1443
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 64946 gatggaagccggatgatggcagtggctgccctcgtggtgaacttctcacagccagtggca
65005

Query: 1444 ggtcgtccctctctcctgagacacgacgaggtgaggacttactttcatgagtttggtcac
1503
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 65006 ggtcgtccctctctcctgagacacgacgaggtgaggacttactttcatgagtttggtcac
65065

Query: 1504 gtgatgcatcagatttgtgcacag 1527
             ||||||||||||||||||||||||
Sbjct: 65066 gtgatgcatcagatttgtgcacag 65089

Score = 379 bits (191), Expect = e-102
Identities = 191/191 (100%)
Strand = Plus / Plus

Query: 1526 agactgattttgcacgatttagcggaacaaatgtggaaactgactttgtagaggtgccat
1585
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 81947 agactgattttgcacgatttagcggaacaaatgtggaaactgactttgtagaggtgccat
82006

Query: 1586 cgcaaatgcttgaaaattgggtgtgggacgtcgattccctccgaagattgtcaaaacatt
1645
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 82007 cgcaaatgcttgaaaattgggtgtgggacgtcgattccctccgaagattgtcaaaacatt
82066

Query: 1646 ataaagatggaagccctattgcagacgatctgcttgaaaaacttgttgcttctaggctgg
1705
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 82067 ataaagatggaagccctattgcagacgatctgcttgaaaaacttgttgcttctaggctgg
82126

Query: 1706 tcaacacaggt 1716
             |||||||||||
Sbjct: 82127 tcaacacaggt 82137

```
Score =  323 bits (163), Expect = 2e-85
Identities = 163/163 (100%)
Strand = Plus / Plus


Query: 661    ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 53694  ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
53753


Query: 721    attaccttaaaatatccacactatttccctgtcatgaagaaatgttgtatccctgaaacc
780
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 53754  attaccttaaaatatccacactatttccctgtcatgaagaaatgttgtatccctgaaacc
53813


Query: 781    agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 823
              |||||||||||||||||||||||||||||||||||||||||||
Sbjct: 53814  agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 53856



Score =  301 bits (152), Expect = 8e-79
Identities = 152/152 (100%)
Strand = Plus / Plus


Query: 300    agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgagc
359
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 35386  agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgagc
35445


Query: 360    agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
419
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 35446  agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
35505


Query: 420    agatatatttgagagaattgttcatttacagg 451
              ||||||||||||||||||||||||||||||||
Sbjct: 35506  agatatatttgagagaattgttcatttacagg 35537



Score =  280 bits (141), Expect = 3e-72
Identities = 141/141 (100%)
Strand = Plus / Plus


Query: 1842   aggcacaaatatgccagctacctttggacatttggcaggggggatacgatggccaatatta
1901
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
```

```
Sbjct:  84687  aggcacaaatatgccagctacctttggacatttggcaggggggatacgatggccaatatta
84746

Query:  1902   tggatatctttggagtgaagtattttccatggatatgttttacagctgtttttaaaaaaga
1961
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  84747  tggatatctttggagtgaagtattttccatggatatgttttacagctgtttttaaaaaaga
84806


Query:  1962   agggataatgaatccagaggt  1982
               |||||||||||||||||||||
Sbjct:  84807  agggataatgaatccagaggt  84827



Score =  270 bits (136), Expect = 3e-69
Identities = 137/138 (99%)
Strand = Plus / Plus


Query:  821    aggaaaacaccataattttgcagcagctactcccactgcgaaccaaggtggccaaactac
880
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  58207  aggaaaacaccataattttgcagcagctactcccactgcgaaccaaggtggccaaactac
58266


Query:  881    tcggttatagcacacatgctgacttcgtccttgaaatgaacactgcaaagagcacaagcc
940
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  58267  tcggttatagcacacatgctgacttcgtccttgaaatgaacactgcaaagagcacaagcc
58326


Query:  941    gcgtaacagcytttctag  958
               ||||||||| |||||||
Sbjct:  58327  gcgtaacagcctttctag  58344



Score =  268 bits (135), Expect = 1e-68
Identities = 136/137 (99%)
Strand = Plus / Plus


Query:  1979   aggttggaatgaaatacagaaacctaatcctgaaacctgggggatctctggacggcatgg
2038
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  95214  aggttggaatgaaatacagaaacctaatcctgaaacctgggggatctctggacggcatgg
95273


Query:  2039   acatgctccacaatttcttgaaacgtgagccaaaccaaaaagcgttcctaatgagtagag
2098
               ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct:  95274  acatgctccacaatttcttgaaacgtgagccaaaccaaaaagcgttcctaatgagtagag
95333
```

```
Query: 2099  gcctgcatgctycgtga 2115
             |||||||||| |||||
Sbjct: 95334 gcctgcatgctccgtga 95350
```

Score = 262 bits (132), Expect = 7e-67
Identities = 132/132 (100%)
Strand = Plus / Plus

```
Query: 1713  aggtcttctgaccctgcgccagattgttttgagcaaagttgatcagtctcttcataccaa
1772
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 82469 aggtcttctgaccctgcgccagattgttttgagcaaagttgatcagtctcttcataccaa
82528
```

```
Query: 1773  cacatcgctggatgctgcaagtgaatatgccaaatactgctcagaaatattaggagttgc
1832
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 82529 cacatcgctggatgctgcaagtgaatatgccaaatactgctcagaaatattaggagttgc
82588
```

```
Query: 1833  agctactccagg 1844
             ||||||||||||
Sbjct: 82589 agctactccagg 82600
```

Score = 222 bits (112), Expect = 6e-55
Identities = 116/117 (99%), Gaps = 1/117 (0%)
Strand = Plus / Plus

```
Query: 443   atttacaggaaacctgtgatctggggaagataaaacctgaggccagacgatacttggaaa
502
             ||||  |||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 49854 attt-caggaaacctgtgatctggggaagataaaacctgaggccagacgatacttggaaa
49912
```

```
Query: 503   agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg 559
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 49913 agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg
49969
```

Score = 208 bits (105), Expect = 1e-50
Identities = 105/105 (100%)
Strand = Plus / Plus

```
Query: 559   gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
618
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 52613 gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
52672
```

```
Query: 619   aatgaggatgataccttccttgtattttccaaggctgaacttggt 663
              |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 52673 aatgaggatgataccttccttgtattttccaaggctgaacttggt 52717
```

>AC008958.7.1.109526
      Length = 109526

 Score = 520 bits (262), Expect = e-144
 Identities = 262/262 (100%)
 Strand = Plus / Minus

```
Query: 40    agagttggtggttccaggatttttactcagaatgacgttaggaagagaagtgatgtctcct
99
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 24199 agagttggtggttccaggatttttactcagaatgacgttaggaagagaagtgatgtctcct
24140
```

```
Query: 100   cttcaggcaatgtcttcctatactgtggctggcagaaatgttttaagatgggatctttca
159
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 24139 cttcaggcaatgtcttcctatactgtggctggcagaaatgttttaagatgggatctttca
24080
```

```
Query: 160   ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
219
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 24079 ccagagcaaattaaaacaagaactgaggagctcattgtgcagaccaaacaggtgtacgat
24020
```

```
Query: 220   gctgttggaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
279
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 24019 gctgttggaatgctcggtattgaggaagtaacttacgagaactgtctgcaggcactggca
23960
```

```
Query: 280   gatgtagaagtaaagtatatag 301
              ||||||||||||||||||||||
Sbjct: 23959 gatgtagaagtaaagtatatag 23938
```

 Score = 323 bits (163), Expect = 2e-85
 Identities = 163/163 (100%)
 Strand = Plus / Minus

```
Query: 661   ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
720
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 1504  ggtgctcttcctgatgatttcattgacagtttagaaaagacagatgatgacaagtataaa
1445
```

```
Query: 721   attaccttaaaatatccacactatttccctgtcatgaagaaatgttgtatccctgaaacc
780
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 1444  attaccttaaaatatccacactatttccctgtcatgaagaaatgttgtatccctgaaacc
1385


Query: 781   agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 823
             |||||||||||||||||||||||||||||||||||||||||||
Sbjct: 1384  agaagaaggatggaaatggcttttaatacaaggtgcaaagagg 1342


  Score =  301 bits (152), Expect = 8e-79
  Identities = 152/152 (100%)
  Strand = Plus / Minus


Query: 300   agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgagc
359
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 19806 agtggaaaggaccatgctagactttccccagcatgtatcctctgacaaagaagtacgagc
19747


Query: 360   agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
419
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 19746 agcaagtacagaagcagacaaaagactttctcgttttgatattgagatgagcatgagagg
19687


Query: 420   agatatatttgagagaattgttcatttacagg 451
             ||||||||||||||||||||||||||||||||
Sbjct: 19686 agatatatttgagagaattgttcatttacagg 19655


  Score =  222 bits (112), Expect = 6e-55
  Identities = 116/117 (99%), Gaps = 1/117 (0%)
  Strand = Plus / Minus


Query: 443   atttacaggaaacctgtgatctggggaagataaaacctgaggccagacgatacttggaaa
502
             ||||  ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 5344  attt-caggaaacctgtgatctggggaagataaaacctgaggccagacgatacttggaaa
5286


Query: 503   agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg 559
             |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 5285  agtcaattaaaatggggaaaagaaatgggctccatcttcctgaacaagtacagaatg 5229


  Score =  208 bits (105), Expect = 1e-50
  Identities = 105/105 (100%)
  Strand = Plus / Minus
```

```
Query: 559  gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
618
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2585 gaaatcaaatcaatgaagaaaagaatgagtgagctatgtattgattttaacaaaaacctc
2526


Query: 619  aatgaggatgataccttccttgtattttccaaggctgaacttggt 663
            |||||||||||||||||||||||||||||||||||||||||||||
Sbjct: 2525 aatgaggatgataccttccttgtattttccaaggctgaacttggt 2481



 Score = 81.8 bits (41), Expect = 2e-12
 Identities = 41/41 (100%)
 Strand = Plus / Minus


Query: 1      atgatcgcccggtgccttttggctgtgcgaagcctccgcag 41
             |||||||||||||||||||||||||||||||||||||||||
Sbjct: 60390 atgatcgcccggtgccttttggctgtgcgaagcctccgcag 60350
```